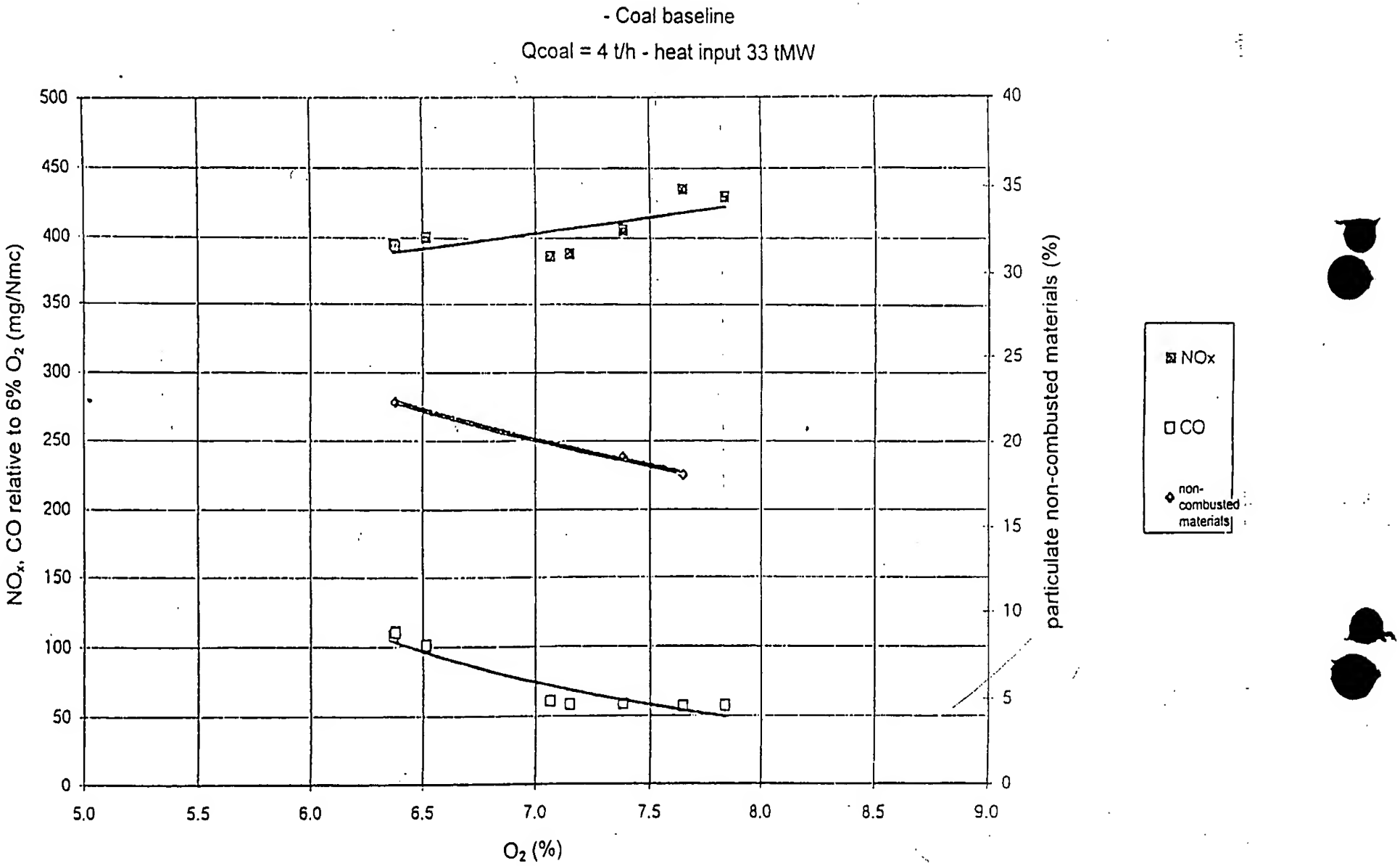
- Coal baseline
Qcoal = 4 t/h - heat input 33 tMW
NOx, CO relative to 6% O2 (mg/Nmc)
particulate non-combusted materials (%)
O2 (%)
500
450
400
350
300
250
200
150
100
50
0
40
35
30
25
20
15
10
5
0
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
9.0
NOx
CO
non-combusted materials

FIG. 1

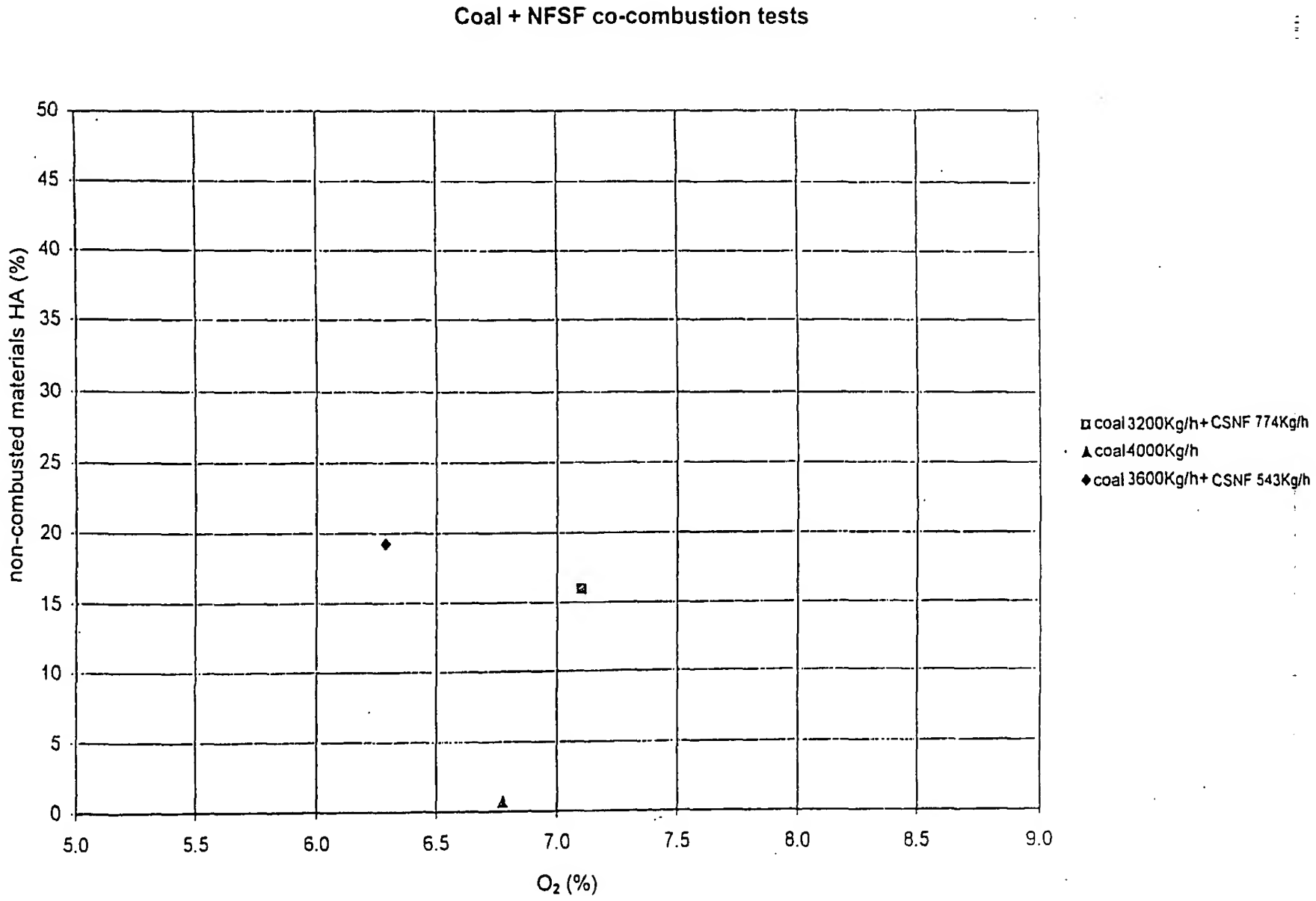
Coal + NFSF co-combustion tests
non-combusted materials HA (%)
50
45
40
35
30
25
20
15
10
5
0
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
9.0
O2 (%)
coal 3200Kg/h+ CSNF 774Kg/h
coal4000Kg/h
coal 3600Kg/h+ CSNF 543Kg/h

FIG. 2

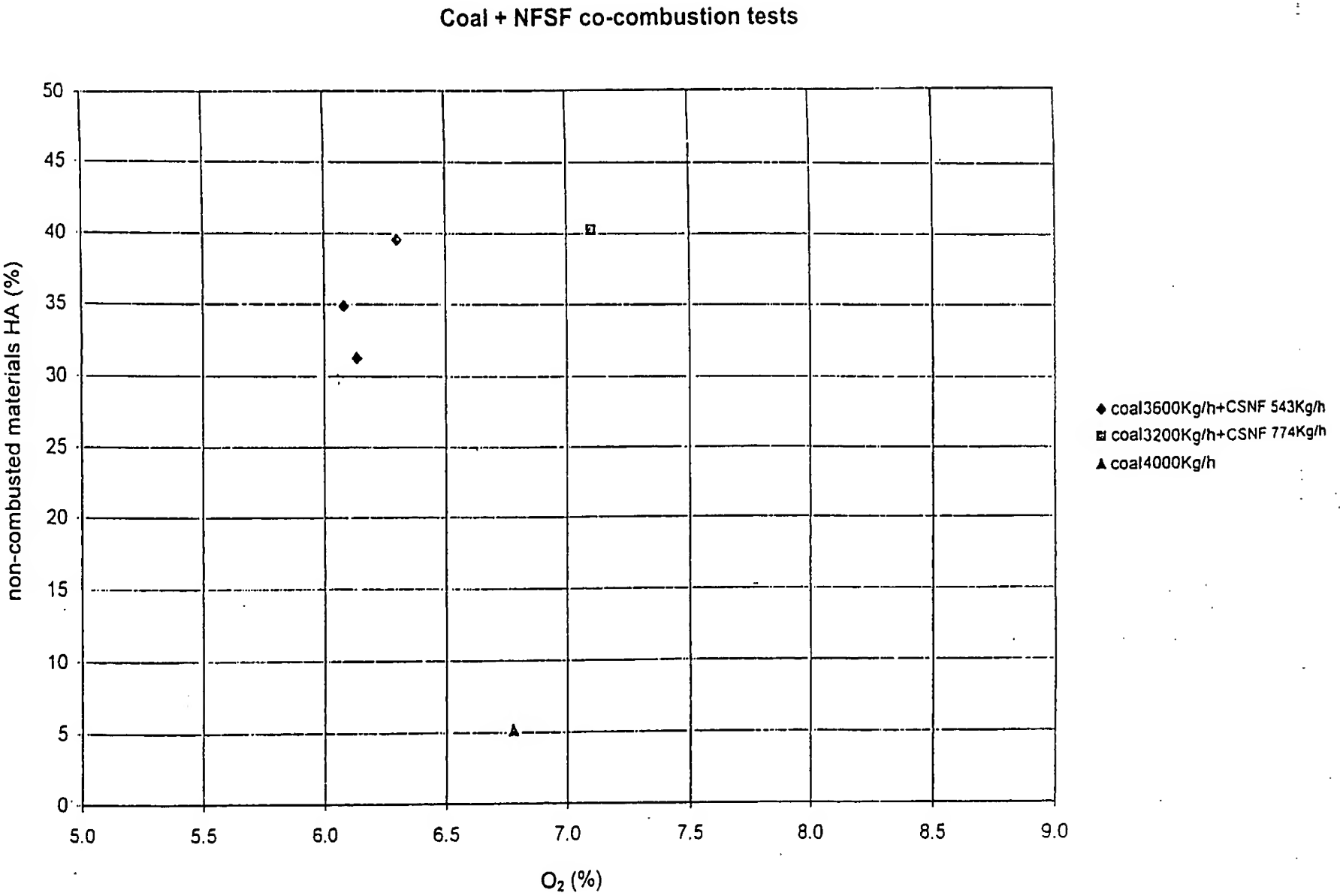
Coal + NFSF co-combustion tests
non-combusted materials HA (%)
50
45
40
35
30
25
20
15
10
5
0
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
9.0
O2 (%)
coal3600Kg/h+CSNF 543Kg/h
coal3200Kg/h+CSNF 774Kg/h
coal4000Kg/h

FIG. 3

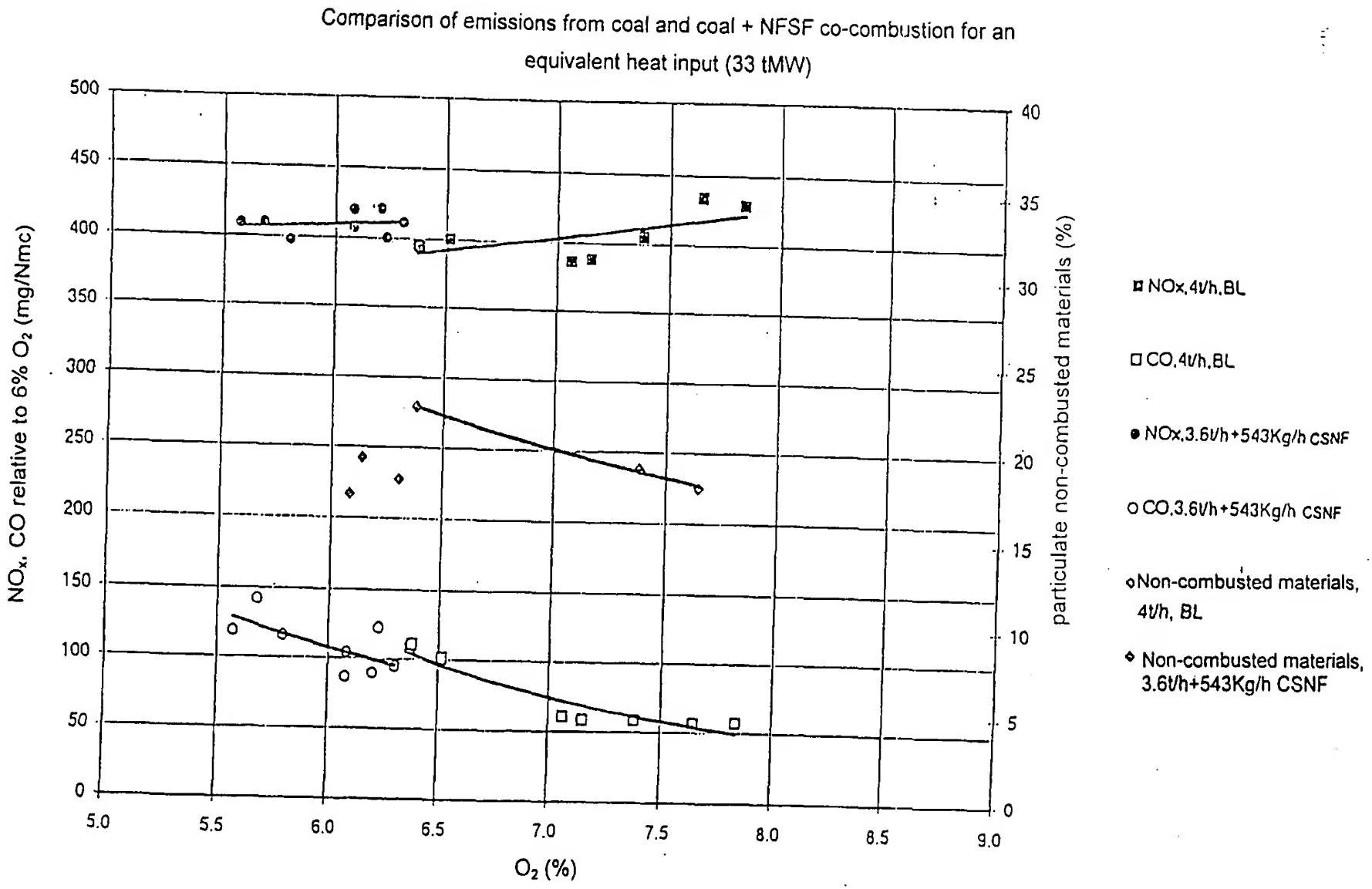
Comparison of emissions from coal and coal + NFSF co-combustion for an equivalent heat input (33 tMW)
NOx, CO relative to 6% O2 (mg/Nmc)
particulate non-combusted materials (%)
O2 (%)
500
450
400
350
300
250
200
150
100
50
0
40
35
30
25
20
15
10
5
0
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
9.0
NOx,4t/h,BL
CO,4t/h,BL
NOx,3.6t/h+543Kg/h CSNF
CO,3.6t/h+543Kg/h CSNF
Non-combusted materials, 4t/h, BL
Non-combusted materials, 3.6t/h+543Kg/h CSNF

FIG. 4

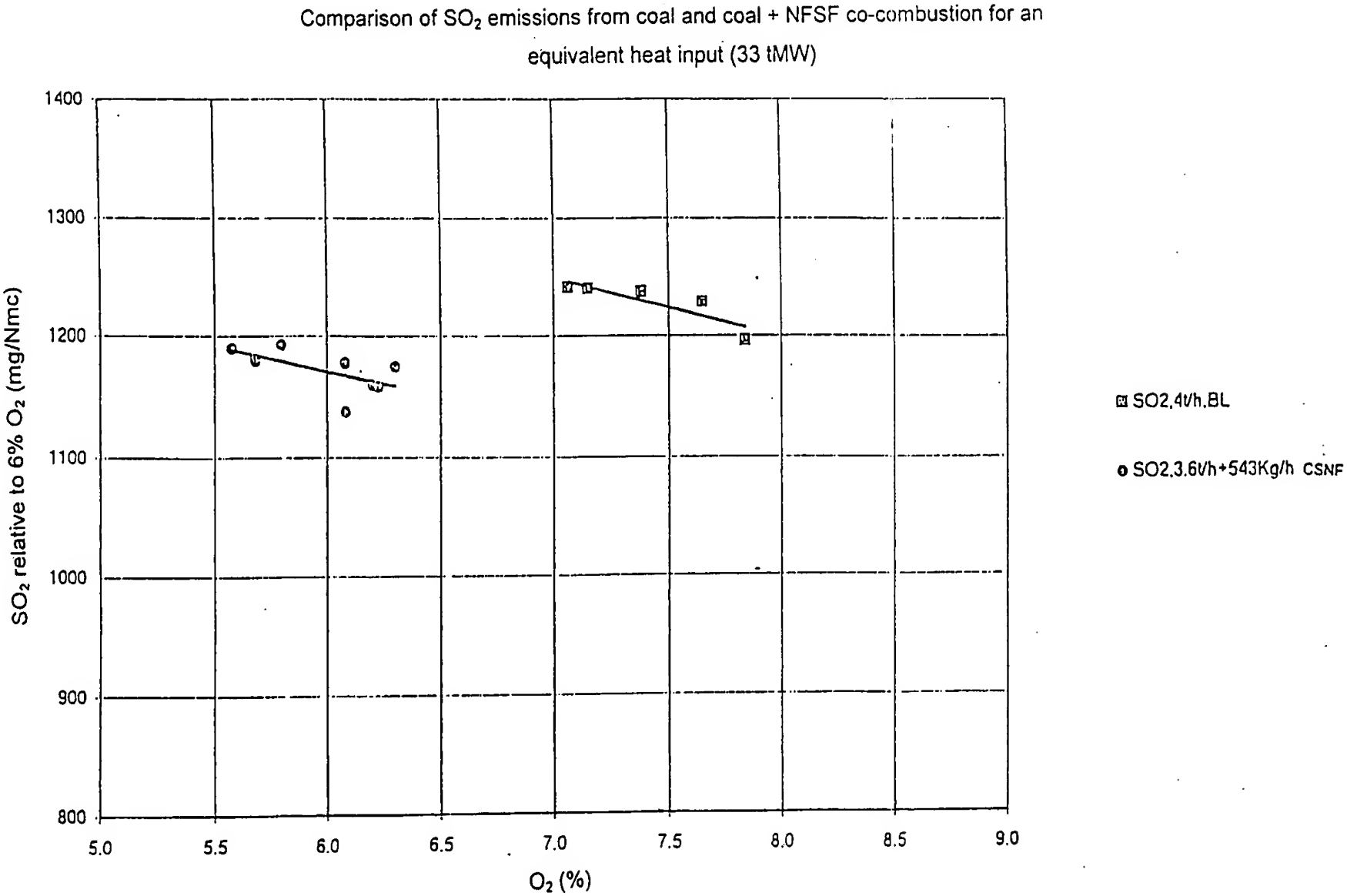
Comparison of SO_2 emissions from coal and coal + NFSF co-combustion for an equivalent heat input (33 tMW)
SO_2 relative to 6% O_2 (mg/Nmc)
1400
1300
1200
1100
1000
900
800
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
9.0
O_2 (%)
SO2,4t/h,BL
SO2,3.6t/h+543Kg/h CSNF

FIG. 5

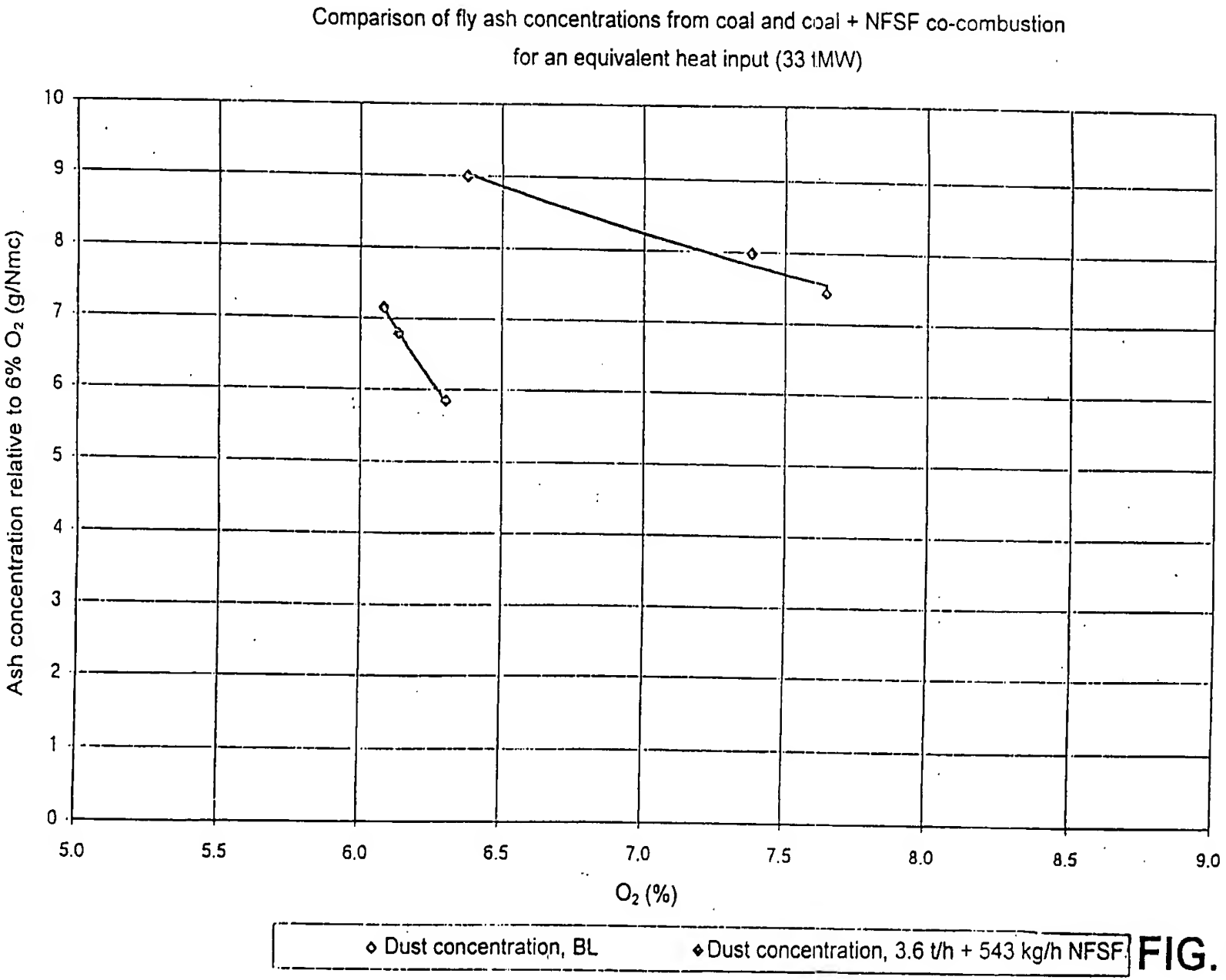

FIG. 6

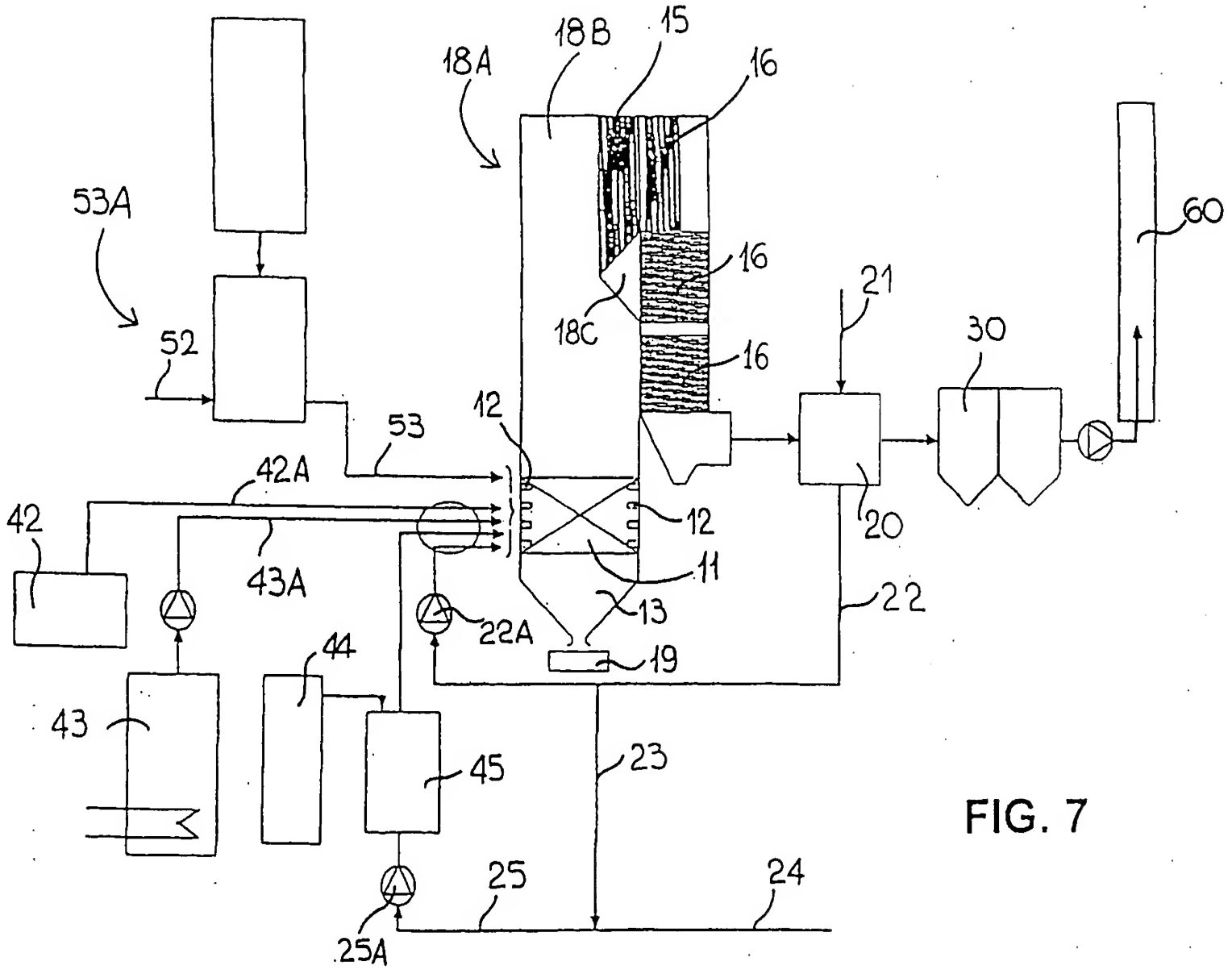
18A
18B
15
16
16
16
18C
53A
52
53
12
42A
42
43A
12
11
13
22A
19
22
20
21
30
60
44
43
45
23
25
24
25A

FIG. 7

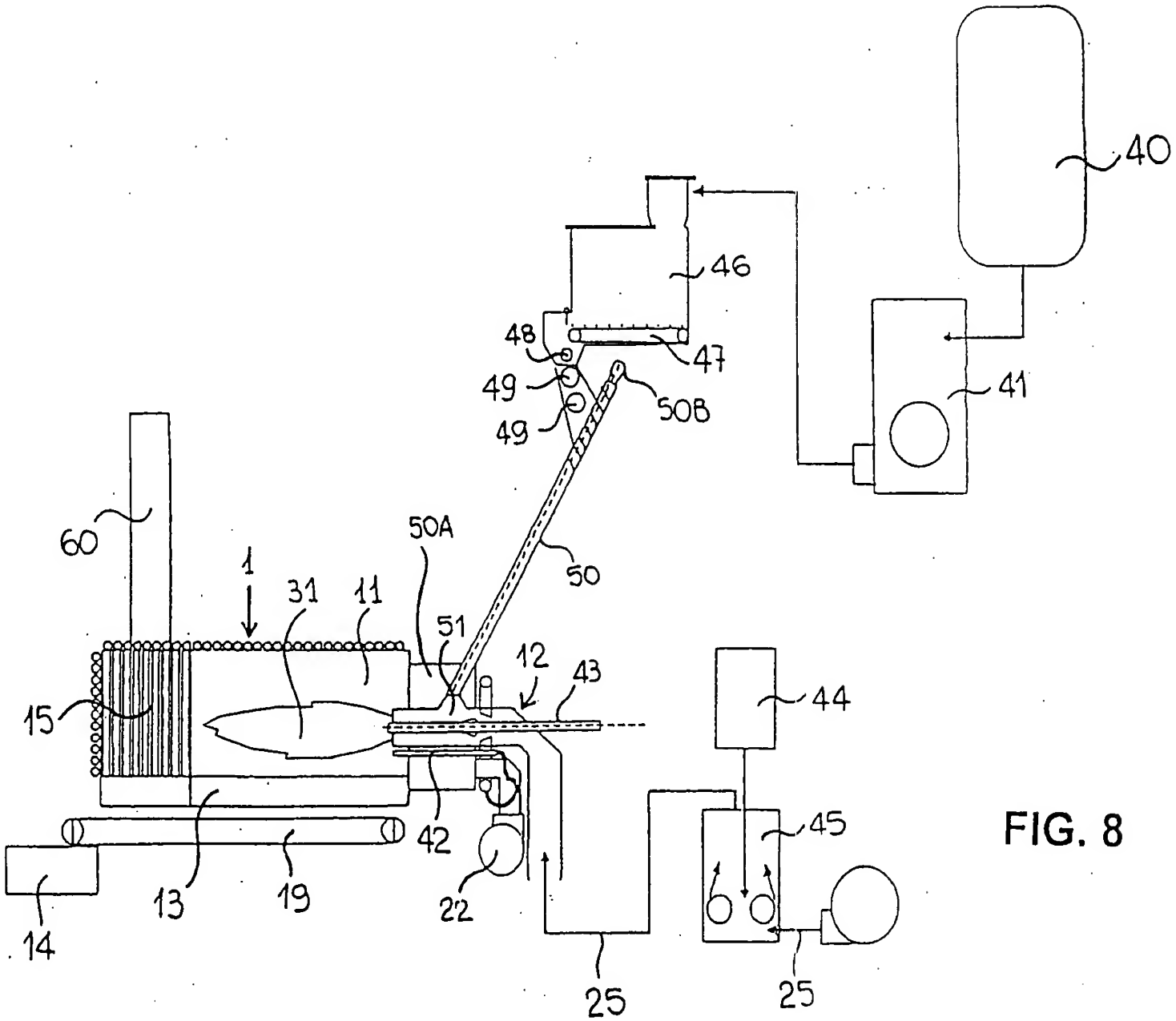
40
46
48
47
49
49
50B
41
60
50A
50
1
31
11
51
12
43
44
15
42
45
13
19
22
14
25
25

FIG. 8

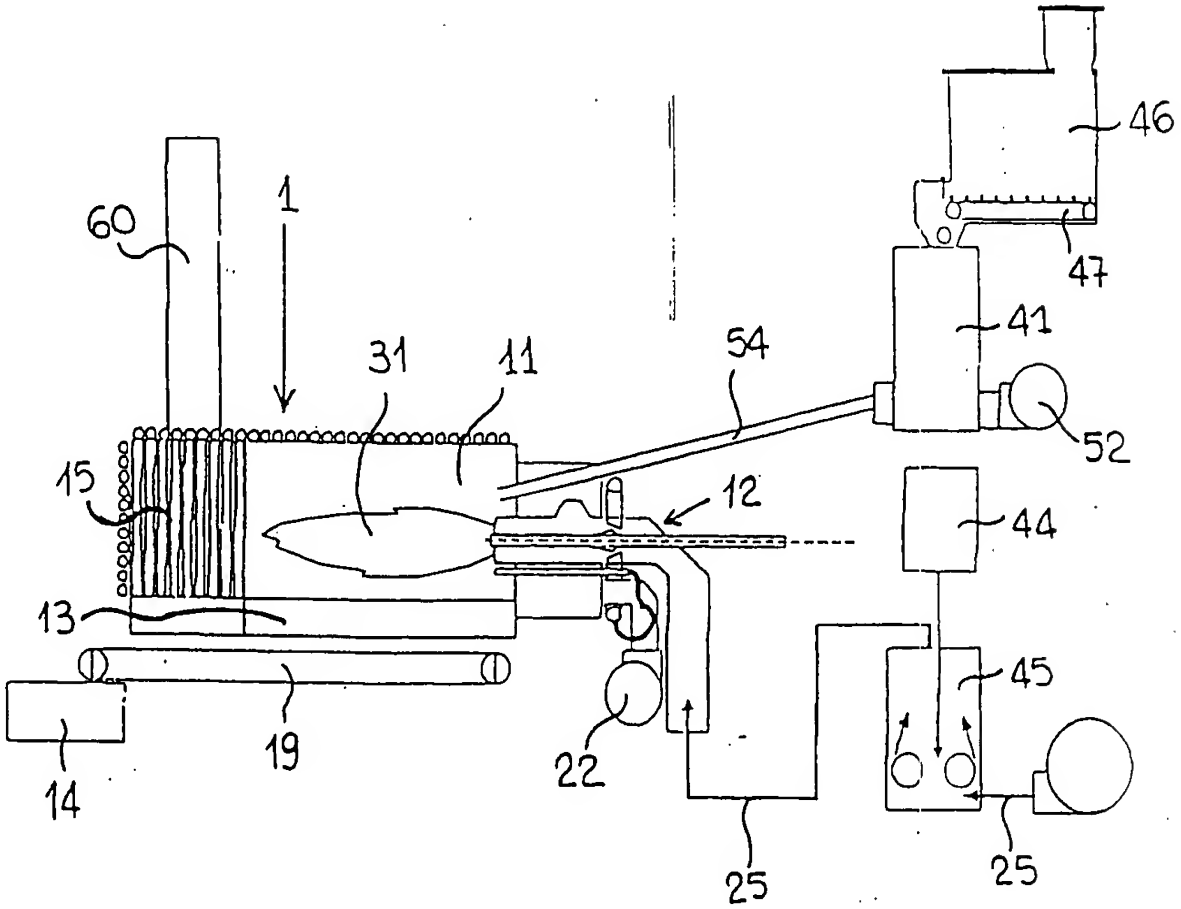

FIG. 9